



SMALL SIGNAL DIODE

VOLTAGE RANGE 120 to 250 Volts CURRENT 200 mAmpere

FEATURES

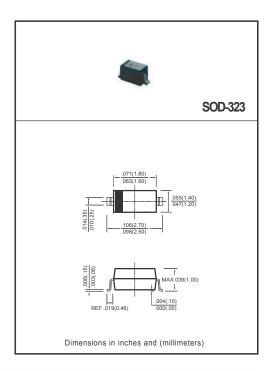
- * Fast Switching Speed
- * Surface Mount Package Ideally Suited for Automatic Insertion
- * For General Purpose Switching Applications

MECHANICAL DATA

- * Case: Molded plastic
- * Epoxy: UL 94V-O rate flame retardant
- * Lead: MIL-STD-202E method 208C guaranteed
- * Mounting position: Any * Weight: 0.004 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25° C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.



$\textbf{MAXIMUM RATINGS} \ (\textcircled{0} \textbf{T}_{A} = 25^{\circ} \textbf{C} \ unless \ otherwise \ noted)$

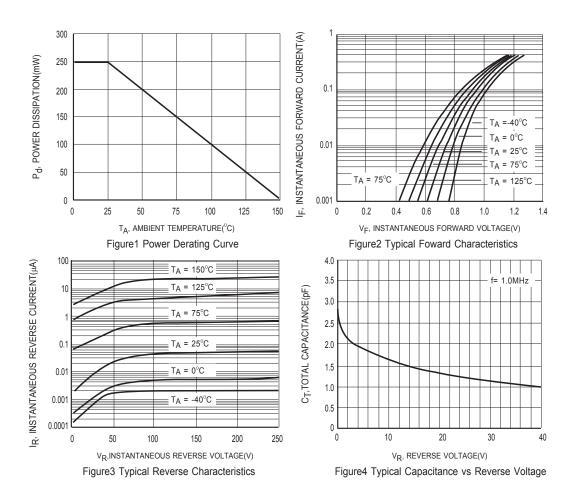
| RATINGS | SYMBOL | BAV19WS | BAV20WS | BAV21WS | UNITS |
|--|--------------------|--------------|---------|---------|-------|
| Non-Repetitive Peak Reverse Voltage | V _{RM} | 120 | 200 | 250 | Volts |
| Maximum Repetitive Peak Reverse Voltage Maximum Working Peak reverse Voltage Maximum DC Blocking Voltage | VRRM VRWM VR | 100 | 150 | 200 | Volts |
| RMS Reverse Voltage | VRMS | 71 | 106 | 141 | Volts |
| Forward Comtinuous Current | IFM | 400 | | | mAmps |
| Average Rectified Output Current | I _O | 200 | | | mAmps |
| Peak Forward Surge Current @t<1.0mS @t<1.0S | IFSM | 2.5 0.5 | | | Amps |
| Repetitive Peak Forward Current | IFRM | 625 | | | mAmps |
| Reverse Recovery Time($I_F = I_R = 30 \text{mA} I_{\Gamma\Gamma} = 0.1 \text{X} I_R, R_L = 100 \Omega$) | Trr | 50 | | | nS |
| Capacitance between terminals (V _R =0V,f=1MHz) | Ст | 5 | | | pF |
| Power Dissipation | PD | 200 | | | mW |
| Storage Temperature Range | Tstg | -65 to + 150 | | | °C |

ELECTRICAL CHARACTERISTICS (@TA=25°C unless otherwise noted)

| CHARACTERISTICS | | SYMBOL | BAV19WS | BAV20WS | BAV21WS | UNITS |
|-----------------|--|----------------|-------------|---------|---------|-------|
| Forward Voltage | @IF=0.1A @IF=0.2A | VF | 1.0 1.25 | | | Volts |
| Reverse Current | @VR=100V (BAV19WS) @VR=150V (BAV20WS) @VR=200V (BAV21WS) | I _R | | 0.1 | | uAmps |

Note 1: "Fully ROHS compliant", "100% Sn plating (Pb-free)".

RATING AND CHARACTERISTICS CURVES (BAV19WS/BAV20WS/BAV21WS)



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